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TE | COMPNI V CREO 23/5/2012
microprocessor

ws May-2012 I

Con. 3925-12.

(3 Hours)

GN-6962

[Total Marks : 100

N.B. : (1) Question No. 1 is **compulsory**.(2) Solve any **four** questions from remaining.(3) **Figures** to the **right** indicate marks.(4) Assume data if **necessary**.

1. (a) Explain addressing modes of 8085 microprocessor with example. 10
(b) What is segmented memory ? State the advantages of it wrt 8086 microprocessor. 10
2. (a) What is meant by DMA ? Show interfacing of 8237/57 with 8086 and explain. 10
(b) Explain following instructions with one example each (wrt 8086). 10
(i) SAL (ii) TEST (iii) STOS (iv) CMP (v) JC.
3. (a) Explain the operation of IC 8259 with block diagram. 10
(b) Write an assembly language program for 8086 to exchange the blocks of 1 kB located at 0100 H and 0200 H using string instructions. 10
4. (a) Explain Assembler directives of 8086. 10
(b) What are the various modes of operation of 8255 PPI ? 10
5. (a) Explain the addressing modes of 8085 microprocessor. 10
(b) Draw the timing diagram and explain for : 10
(i) Memory read in minimum mode
(ii) Memory write in maximum mode.
6. (a) - Explain Interrupts of 8086 in detail. 10
(b) (i) Explain Generation of Address and data Bus. 5
(ii) Differentiate between memory mapped I/O and I/O mapped I/O. 5
7. Write short notes on any three :- 20
(a) RS 232 serial Interface Standard
(b) Memory Banking in 8086
(c) 8284 Clock Generator
(d) 8288 Bus Controller.